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Not required

Honey Bees:

Not dangerous under the recommended application conditions

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Harmless for populations of Typhlodromus pyri (Acarina), Poecilius cupreus (Coleoptera), Coccinella septempunctata (Coleoptera), Aphidius rhopalosiphi (Hymenoptera)

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Trifolio-M GmbH
Dr.-Hans-Wilhelmi-Weg 1
D-35633 Lahnau | Germany
www.trifolio-m.de
Fon: +49 (0)6441 / 20977-0
Fax: +49 (0)6441 / 20977-50

Manufactured by:

Safety measures

Preparation of the spraying solution, application

NeemAzal®-T/S is generally used as a 0,3% to 0,5% aqueous solution, at a rate of 1,5-3 L/ha of cultivated area. Usually 300L to 1000L of spraying solution are applied per hectare and complete wetting of the plants with the spraying solution is essential for the success. The treatment should be repeated if rainfall follows the application within about 8 hours.

Fill spray tank with the required amount of water and add NeemAzal®-T/S under thorough stirring. Use the solution on the day of preparation. Do not prepare more spraying solution than necessary.

Phytotoxicity information

NeemAzal®-T/S was tested with many plants under outdoor and greenhouse conditions and shows generally good plant compatibility during the warm season. The compatibility of NeemAzal®-T/S depends on the variety and species of plants.

In ornamentals many plants react on NeemAzal®-T/S -treatment with good leaf and blossom compatibility or good leaf compatibility, respectively.

For some varieties blossom damages or leaf damages have been observed.

In orchards serious plant toxicity has only been observed in the case of some pear varieties!

In the case of plant species that normally react insensitive, individual varieties can exhibit incompatibilities. This has occasionally been observed with the apple variety 'Gala'. Because of the season dependent culture conditions and the many species and varieties of plants, we can not make a general statement about the compatibility of NeemAzal®-T/S. We recommend to perform sensitivity tests with a few plants or some leaves in the respective growth stadium 3 to 5 days before treatment of larger areas.

Updated information on observations of phytotoxic reactions can be found at: www.trifolio-m.de

Against freely living sucking and biting insect pests and spider mites

● Selective effects on target organisms

● Non toxic to honey bees

● Harmless to most beneficials

● Safe to aquatic organisms

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NeemAzal®-T/S

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Obvious advantages of NeemAzal®-T/S

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- Harmless to most beneficials
- Safe to aquatic organisms
NeemAzal®-T/S

Plant extract for use in orcharding, ornamental plants, vegetable gardening and agriculture

Against freely living sucking and biting insect pests and spider mites

The Neem tree

Different parts of the tropical Neem tree Azadirachta indica A. Juss are used in India since times immemorial for curing many diseases. In a holistic perception the protection of plants and animals against diseases and illness is a medical issue as well. The leaves and especially the seed kernels of the Neem tree and their extracts have been used for the control of various insect pests in India. On behalf of different reasons there is a demand for standardised natural products for plant protection today. Our research has combined the experience of the thousands year old Indian experience and modern demands for plant protection products. The result of our development is NeemAzal®-T/S.

Against:


In:

Leafy, legume and other vegetables, cereal grains, berries, herbs and spices, fruit and nut trees, ornamental flowers and shrubs, ornamental trees.
NeemAzal®-T/S contains NeemAzal®, the purified active ingredient of the seed kernels of the tropical Neem tree Azadirachta indica A. Juss. The active substance permeates into the leaves and is distributed partially systemic in the plant; the pest insects take it up orally upon feeding (sucking or biting).

NeemAzal®-T/S has a special mode of action. It stops the insect’s feeding and plant damaging activity. However, a “knock down” effect should not be expected. Within a few hours after application of NeemAzal®-T/S pest insects become inactive and after a few days the population does not develop any longer and collapses. After the treatment with NeemAzal®-T/S larvae react with feeding and moulting inhibition and mortality; adult (beetle) show feeding inhibition, infertility and to a lesser degree mortality. As a result of this comparatively slow, “insectistatic” mode of action of NeemAzal®-T/S a final assessment of the treatment should be done 7-10 days after application under practical conditions. The number of dead pest insects is not necessarily a good evaluation criterion. For the assessment the following criteria are appropriate: loss of leaf mass, damage to leaves, formation of honey dew, yield of crops, development of the pest population, positive effects on beneficials.

The success of the application of NeemAzal®-T/S depends on the progress of the pest infestation and adequate timing of the treatment. NeemAzal®-T/S is harmless to most beneficials. They are an important factor in the control of the remainder of the pest population. NeemAzal®-T/S can favourably be combined with the use of beneficials in the plant protection conception.

Organic insecticide active ingredient NeemAzal® is a natural extract from neem seeds formulation based on renewable natural resources.

**Pest Management**
- Efficient control of insect pests and spider mites (free-feeding; sap-feeding and biting insects)
- Systemic and transaminar mode of action
- Harmless for most beneficial organisms
- Non-toxic for honey bees
- Safe for aquatic organisms

**Resistance Management**
- Standardised extract Neem-Azal® is a complex mixture of numerous active substances (limonoids)
- Resistance of insects against NeemAzal® and its formulation NeemAzal®-T/S is unknown and very unlikely to occur
- Use of NeemAzal®-T/S in spray program supports prevention of resistance development

**Residue Management**
- Exemption of tolerance in the USA
- Fast degradation on crop
- Waiting period for most crops between 0 and 3 days, depending on applicable national laws
**Registrations applied for in Germany**

<table>
<thead>
<tr>
<th>Pest (maximum number of applications)</th>
<th>Area of application: culture, (growth stage)</th>
<th>Time of application</th>
<th>Remarks</th>
</tr>
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<tbody>
<tr>
<td>Aphids and other sucking pest insects (2)</td>
<td>Ornamentals: Greenhouses and in the field</td>
<td>Beginning of infestation</td>
<td>Spray, period between applications: 7-10 days</td>
</tr>
<tr>
<td>Leaf Miners (4)</td>
<td></td>
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<tr>
<td>Spider Mite (2)</td>
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<tr>
<td>Thrips (2)</td>
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<td></td>
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</tr>
<tr>
<td>White Flies (2)</td>
<td></td>
<td></td>
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<tr>
<td>Sciaride (4)</td>
<td>Ornamentals: Greenhouses</td>
<td>Beginning of infestation</td>
<td>Soil application, period between applications: 7 days</td>
</tr>
<tr>
<td>Colorado potato beetle (2)</td>
<td>Field: Potatoes</td>
<td>5 days after deposition of more than 10 egg masses on 50 plants</td>
<td>Spray</td>
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<tr>
<td>Ermine Moth larval stage L1-L2 (1)</td>
<td>Ornamentals (field): Adornment woods, Orchards</td>
<td>Beginning of infestation</td>
<td>Spray</td>
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<tr>
<td>Winter Moth, larval stage L 1 to L 2 (1)</td>
<td>Orchard (except for strawberries), from plant stage: Red bud to Balloon Ornamentals: field</td>
<td>Beginning of infestation with larvae</td>
<td>Spray</td>
</tr>
<tr>
<td>Elder Bush Aphid (1)</td>
<td>Orchard: Elder (before blooming)</td>
<td>Beginning of infestation</td>
<td>Spray</td>
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<tr>
<td>Rosy Apple Aphid (1-2)</td>
<td>Orchard: apples (from plant stage: red bud to balloon, majority of the blossoms in the balloon stage to end of blossoming)</td>
<td>Beginning of infestation or occurrence of fundatrices</td>
<td>Spray, 2nd application 10-14 days later</td>
</tr>
<tr>
<td>Fruit Damaging Bugs (2)</td>
<td>Orchards: Apple Orchards: field</td>
<td>Beginning of infestation</td>
<td>Spray, period between applications 10-14 days</td>
</tr>
<tr>
<td>Sucking and biting pest Insects, Spider Mites, Thrips, Minor Fly (3)</td>
<td>Vegetable (greenhouses and filed): Tomato</td>
<td>Beginning of infestation</td>
<td>Spray, period between applications: 7-10 days</td>
</tr>
<tr>
<td>Cockchafer (1-2)</td>
<td>Forest: Orchard (except for strawberries), from plant stage: Red bud to balloon Ornamentals: Field</td>
<td>Beginning of infestation, flight of beetles (sex ratio males: females = 1:1)</td>
<td>Airspray Spray</td>
</tr>
</tbody>
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* - has to be determined under local conditions of cultivation and pest incidence!
NeemAzal®-T/S

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